

# INL study demonstrates environmental advantages of Baard Energy's coal to liquid (CTL) fuel process

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## More Information

- Senator Larry Craig's comments about the study: [text](#), [video](#)
- A complete copy of the INL CTL study is available [here](#). ( PDF)
- The presentation made at the May 9 media event can be found [here](#). ( PDF)
- A full technical report is scheduled to be delivered by Baard Energy and the Idaho National Laboratory at the 24th Annual International Pittsburgh Coal Conference in Johannesburg, South Africa, September 10-14, 2007.

Baard Energy logo



Senior executives from Baard Energy, L.L.C., a leading energy project development company located in Vancouver, Wash., joined a bipartisan group of members of Congress on Capitol Hill on May 9 to spotlight Baard Energys Ohio River Clean Fuels project currently under development in Wellsville, Ohio. Baard Energys project will produce ultra-clean liquid transportation fuels through the gasification and processing of domestic coal which, along with significantly strengthening U.S. energy security, will also provide a myriad of environmental benefits.

Dr. Richard Boardman of the U.S. Department of Energys Idaho National Laboratory (INL) and other INL representatives, joined Baard Energy and the members of Congress to detail results of a recently concluded comprehensive INL study that demonstrated the environmental advantages of the coal-to-liquid (CTL) process Baard Energys project will employ.

INL logo



According to the year-long INL study of the Ohio River Clean Fuels project modeling, Baards CTL fuels will yield 46 percent less emissions of carbon dioxide and other greenhouse gases than conventional low-sulfur diesel transportation fuels. (Carbon dioxide emission reductions are achieved using a 30 percent biomass co-feed, carbon capture and storage technology, and combined cycle, co-generation processes.) All emission reductions documented in the study were measured on a wells-to-wheels basis using the Argonne National Lab GREET (Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation) model of transportation fuels.

The INL study demonstrates that CTL fuels produce dramatically fewer emissions of regulated pollutants when compared to low-sulfur diesel fuel. Baards virtually sulfur-free CTL fuel will reduce emissions of sulfur dioxide by more than 80 percent and cut nitrogen oxide emissions by more than 20 percent. In addition, INL found that Baards CTL fuel will reduce particulate matter emissions by nearly 20 percent, slash emissions of volatile organic compounds by close to 20 percent and also reduce emissions of carbon monoxide.

House Natural Resources Committee Chairman Nick Rahall (D-W.Va.) and U.S. Representative Charlie Wilson (D-Ohio) joined other members of Congress at todays event to express their support for federal action to support construction of the first fleet of domestic CTL plants.

"Today's announcement is great news for the Ohio River Valley and for America," said U.S. Senator Jim Bunning (R-Ky.), who introduced the "Coal-to- Liquid Fuel Promotion Act of 2007" (S. 155). "I wrote the Coal-to-Liquid Fuel Promotion Act with the goal of providing the right incentives to get plants just like this one off the ground," said Bunning. "I hope my colleagues will look at this study and realize this is a clean technology that Congress needs to support. Coal-to-liquid fuel will be a secure, domestic replacement for Middle Eastern oil and it will be better for the environment too."

Senator Mary Landrieu (D-La.) separately voiced her support for the newly released study. "This study demonstrates some of the tremendous potential to be tapped through the use of domestically produced CTL fuels," Landrieu said. "I believe that CTL fuels will be an important component of our future energy mix that America must develop if we are ever to achieve real energy security," she said. "That is why I co-sponsored the Coal-to-Liquid Fuel Promotion Act of 2007 and urge my colleagues to support congressional CTL action."

"I have long said that we need to harmonize our economic, environmental and energy needs," Sen. George Voinovich (R-Ohio) said separately. "This project will make our economy stronger, our environment cleaner and, in the future, provide more energy for our nation," said Voinovich. "We must have a second Declaration of Independence — independence from foreign sources of energy. Projects like this take us one step closer to that goal."

"INLs comprehensive study clearly demonstrates that Baards CTL fuel can greatly help our nation meet a number of important environmental goals," said Baard President and CEO John Baardson. "Not only can we clean the air, but Baards CTL fuel can put America on a path towards real energy independence by significantly reducing our use of imported oil, while creating hundreds of new, high-paying jobs in Ohio," said Baardson. "Our CTL fuels can also help provide America with a secure and affordable source of domestically made diesel fuels and jet fuels."

## **About Baard Energy, L.L.C. Baard**

Energy is a privately held limited liability company that develops finances, constructs, and owns alternative fuel projects including ethanol, biodiesel, coal to liquids and biomass to liquids facilities. Based in Vancouver, Washington, Baard Energy has over twenty years experience in alternative energy and fuels. Over the past 20 years, Baard and its affiliates have developed a variety of energy projects, including wood-waste and natural gas electric generating facilities and ethanol production plants used for transportation fuels. Since 1998, and in response to an increased demand for alternative fuel sources, Baard has been working on the engineering and design of coal to liquids (CTL) and biomass to liquids (BTL) technologies.

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